

Fig.1

EXAMPLES															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PET RESIN (PARTS)	100	100	100	100	—	—	—	—	—	—	—	—	—	—	—
PBT RESIN (PARTS)	—	—	—	—	100	100	100	—	—	—	—	—	—	—	—
PA RESIN (PARTS)	—	—	—	—	—	—	—	100	100	100	100	—	—	—	—
DS2010 (PARTS)	—	—	—	—	—	—	—	—	—	—	—	100	100	100	100
ANTISTATIC AGENT (PARTS)	A	2	0.5	5	—	2	—	2	0.5	5	—	2	0.5	5	—
	B	—	—	2	—	2	—	—	—	—	2	—	—	—	2
	C	—	—	—	—	—	2	—	—	—	—	—	—	—	—
SURFACE RESISTANCE VALUE(Ω)	3.4 x10 <sup>13</sup>	9.7 x10 <sup>13</sup>	5.7 x10 <sup>12</sup>	3.6 x10 <sup>13</sup>	3.8 x10 <sup>13</sup>	4.3 x10 <sup>13</sup>	E+13	2.7 x10 <sup>13</sup>	8.6 x10 <sup>13</sup>	8.3 x10 <sup>12</sup>	3.0 x10 <sup>13</sup>	E+12	E+13	E+11	E+12
APPEARANCE	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT

ANTISTATIC AGENT

A: TRI-N-BUTYL-N-HEXADECYLPHOPHONIUM TETRAFLUOROBORATE

B: TRI-N-BUTYL-N-TETRADECYLPHOPHONIUM TETRAFLUOROBORATE

C: TRI-N-BUTYL-N-HEXADECYLPHOPHONIUM HEXAFLUOROPHOSPHATE

Fig.2

COMPARATIVE EXAMPLES											
	1	2	3	4	5	6	7	8	9	10	11
PET RESIN (PARTS)	100	100	100	—	—	—	—	—	—	—	—
PBT RESIN (PARTS)	—	—	—	100	100	—	—	—	—	—	—
PA RESIN (PARTS)	—	—	—	—	—	100	100	100	—	—	—
DS2010 (PARTS)	—	—	—	—	—	—	—	—	100	100	100
ANTISTATIC AGENT (PARTS)	D	2	—	—	—	—	2	—	—	2	—
	E	—	2	—	2	—	—	2	—	—	2
SURFACE RESISTANCE VALUE( $\Omega$ )	9.0 $\times 10^{15}$	1.2 $\times 10^{15}$	2.4 $\times 10^{13}$	1.9 $\times 10^{17}$	3.2 $\times 10^{13}$	3.3 $\times 10^{15}$	3.3 $\times 10^{15}$	3.4 $\times 10^{13}$	>E+14	E+13	E+12
APPEARANCE	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	CLOUDY WHITE	COLOR LESS TRANS PARENT	CLOUDY WHITE	COLOR LESS TRANS PARENT	COLOR LESS TRANS PARENT	CLOUDY WHITE	COLOR LESS TRANS PARENT	CLOUDY WHITE	CLOUDY WHITE

ANTISTATIC AGENT  
D: TETRA-N-BUTYLPHOPHONIUM TETRAFLUOROBORATE  
E: DODECYL SODIUM SULFONATE

**Fig.3**

	EXAMPLES				COMPARATIVE EXAMPLES	
	16	17	18	19	12	13
POLYETHER POLYOL-BASED PREPOLYMER(PARTS)	100	100	0	0	100	0
POLYESTER POLYOL-BASED PREPOLYMER(PARTS)	0	0	100	100	0	100
HARDENING AGENT(PARTS)	12.5	12.5	12.5	12.5	12.5	12.5
ANTISTATIC AGENT A1(PARTS)	1.5	3.0	1.5	3.0	0	0
SURFACE RESISTANCE VALUES ( $\Omega$ )						
IMMEDIATELY AFTER HARDENING	$4 \times 10^9$	$1 \times 10^9$	$3 \times 10^9$	$2 \times 10^9$	$\geq 10^{14}$	$\geq 10^{14}$
1 MONTH AFTER	$2 \times 10^9$	$1 \times 10^9$	$3 \times 10^9$	$2 \times 10^9$	$\geq 10^{14}$	$\geq 10^{14}$

ANTISTATIC AGENT A1: TRI-N-BUTYL-N-HEXADECYLPHOPHONIUM TETRAFLUOROBORATE

**Fig.4**

	EXAMPLES						COMPARATIVE EXAMPLES			
	20	21	22	23	24		14	15	16	17
HIPS(PARTS)	100	100	100	0	0		100	100	0	0
PET(PARTS)	0	0	0	100	100		0	0	100	100
CARBON NANOTUBES (PARTS)	1	2	2	0.5	1		1	2	0.5	1
ANTISTATIC AGENT A1 (PARTS)	2	0.5	2	1	1		0	0	0	0
SURFACE RESISTANCE VALUE ( $\Omega$ )	$1 \times 10^{11}$	$1 \times 10^{11}$	$8 \times 10^9$	$8 \times 10^{12}$	$5 \times 10^8$		$>10^{14}$	$4 \times 10^{13}$	$>10^{14}$	$>10^{14}$

ANTISTATIC AGENT A1: TRI-N-BUTYL-N-HEXADECYLPHOPHONIUM TETRAFLUOROBORATE